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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/636,112	08/07/2003	Malcolm David Dick Lambert	DP-303841	1579
22851	7590	09/02/2005		
DELPHI TECHNOLOGIES, INC. M/C 480-410-202 PO BOX 5052 TROY, MI 48007			EXAMINER KIM, CHRISTOPHER S	
			ART UNIT 3752	PAPER NUMBER

DATE MAILED: 09/02/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/636,112

Applicant(s)

LAMBERT ET AL.

Examiner

Christopher S. Kim

Art Unit

3752

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 May 2005.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 16-38 is/are pending in the application.
- 4a) Of the above claim(s) 22, 23, 27-29, 37 and 38 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 16-21, 24-26 and 31-36 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 07 August 2003 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☐ Certified copies of the priority documents have been received.
 - 2) ☒ Certified copies of the priority documents have been received in Application No. 09/654,458.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 9/25/03; 11/14/03.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☒ Other: IDS filed 8/7/03; 7/5/05.

DETAILED ACTION

Election/Restrictions

1. Applicant's election with traverse of Group I, Species F (page 10, lines 3-14) in the reply filed on May 20, 2005 is acknowledged. The traversal is on the ground(s) that Group I and II are different aspects of a single invention and the claims have common distinctive features. This is not found persuasive because applicant's allegation of a single invention is unsupported by facts. Additionally, although the claims may recite some common features, not all features are present in both groups. Paragraph 2 of the Election/Restriction Requirement mailed on April 20, 2005 provides for the basis of the restriction requirement.

The requirement is still deemed proper and is therefore made FINAL.

Drawings

2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the "multi-layer" recited in claims 20 and 24; and the "additional substrate material" recited in claims 21 and 36 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate

prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. Each drawing sheet submitted after the filing date of an application must be labeled in the top margin as either "Replacement Sheet" or "New Sheet" pursuant to 37 CFR 1.121(d). If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

3. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

4. Claims 20 and 33 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 20 recites "a further coating" in line 2. It appears to be a double inclusion of the second coating recited in claim 16.

Claim 33 recites "a ceramic material" in line 2. It appears to be a double inclusion of the further coating recited in claim 24.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

6. Claims 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Matsushita et al. (EP 0 828 075).

Matsushita discloses an injection nozzle comprising: a nozzle body 8; a first coating 61, 64; a second coating 7, 94.

7. Claims 24-26, 31-35 are rejected under 35 U.S.C. 102(b) as being anticipated by Susumu (10-274134).

Susumu discloses an injection nozzle comprising: a nozzle body 31; a first coating 37; a further coating 36.

Claim Rejections - 35 USC § 103

8. Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Susumu (10-274134) in view of Voss et al. (5,987,882).

Susumu discloses the limitations of the claimed invention with the exception of the additional substrate material. Voss et al. discloses, in column 13, lines 14-22, an additional substrate material (a bond layer) between a ceramic layer and a metal surface. It would have been obvious to a person having ordinary skill in the art at the

time of the invention to have provided an additional substrate material to the device of Susumu as taught by Voss et al. to increase adhesion.

9. Claim 21 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushita et al. (EP 0 828 075) in view of Voss et al. (5,987,882).

Matsushita discloses the limitations of the claimed invention with the exception of the additional substrate material. Voss et al. discloses, in column 13, lines 14-22, an additional substrate material (a bond layer) between a ceramic layer and a metal surface. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have provided an additional substrate material to the device of Matsushita as taught by Voss et al. to increase adhesion.

10. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Matsushita et al. (EP 0 828 075) in view of Susumu (10-274134).

Matsushita discloses the limitations of the claimed invention with the exception of the insulating material 7, 94 being a ceramic material. Susumu discloses a ceramic material 37. It would have been obvious to a person having ordinary skill in the art at the time of the invention to have made the insulating material of Matsushita from ceramic material as taught by Susumu to decrease deposit at high temperature.

Conclusion

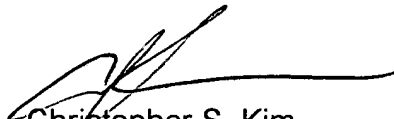
Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher S. Kim whose telephone number is (571)

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272-4905. The examiner can normally be reached on Monday - Thursday, 6:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dave Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Christopher S. Kim
Primary Examiner
Art Unit 3752

CK